

Application No. 10/607,982
Amendment A dated September 20, 2004
Reply to Office Action mailed March 18, 2004

AMENDMENTS TO THE CLAIMS

The listing of claims will replace all prior versions and listings of claims in the application:

Listing of Claims:

1. **(Currently Amended)** An opto-electronic housing, comprising:
a submount having a plurality of conductive traces;
a can attached to said submount forming a cavity having an opening for light to pass through; and
a transparent window in or covering said opening and attached to said can;
wherein said plurality of conductive traces extends from inside the cavity to beyond the can; and
wherein said cavity is hermetically sealed and comprises said window on a first surface, said submount on an opposing second surface, and said can on the surfaces interconnecting said window and said submount.
2. **(Original)** The opto-electronic housing according to claim 1, wherein said submount includes ceramic.
3. **(Original)** The opto-electronic housing according to claim 1, wherein said can is metallic.
4. **(Original)** The opto-electronic housing according to claim 1, further including a micro lens array on the transparent window, wherein said micro lens array includes individual lens elements.
5. **(Original)** The opto-electronic housing according to claim 1, further including an opto-electronic array in said cavity, wherein said opto-electronic array is electrically connected to said conductive traces.

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6. **(Original)** The opto-electronic housing according to claim 5, wherein said opto-electronic array includes a vertical cavity surface emitting laser (VCSEL).

7. **(Original)** The opto-electronic housing according to claim 5, wherein said opto-electronic array includes a photo detector.

8. **(Original)** The opto-electronic housing according to claim 5, wherein said opto-electronic array includes integrated lenses.

9. **(Original)** The opto-electronic housing according to claim 1, wherein a plurality of heat conductive plugs pass through said submount.

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10. **(Currently Amended)** An opto-electronic housing, comprising:
a submount;
a plurality of thru-via conductive contacts passing through said submount;
a can attached to said submount and forming a cavity, wherein said can includes an opening for light to pass through, and wherein said cavity extends over said conductive contacts; and
a transparent window in or covering ~~[[over]]~~ said opening and attached to said can;
wherein said cavity is hermetically sealed and comprises said window on a first surface, said submount on an opposing surface, and said can on the surfaces interconnecting said window and said submount.
11. **(Original)** The opto-electronic housing according to claim 10, wherein said submount includes ceramic.
12. **(Original)** The opto-electronic housing according to claim 10, wherein said can is metallic.
13. **(Original)** The opto-electronic housing according to claim 10, further including a micro lens array on the transparent window, wherein said micro lens array includes individual lens elements.
14. **(Original)** The opto-electronic housing according to claim 10, further including an opto-electronic array in said cavity that is electrically connected to said conductive contacts.
15. **(Original)** The opto-electronic housing according to claim 14, wherein said opto-electronic array includes a vertical cavity surface emitting laser (VCSEL).

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16. **(Original)** The opto-electronic housing according to claim 14, wherein said opto-electronic array includes a photo detector.

17. **(Original)** The opto-electronic housing according to claim 14, wherein the opto-electronic array includes integrated lenses.

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18. **(Currently Amended)** An opto-electronic housing, comprising:
a submount holding an opto-electronic array;
a support comprising a central body, having parallel legs, and guide pins, wherein said support is attached to said submount and ~~forms~~ [[forming]] a cavity with an opening for light to pass through; and
a transparent window in or covering ~~[[over]]~~ said opening and attached to said support, wherein a hermetic seal is formed, and wherein a cavity is formed, said cavity comprising said window on a first surface, said submount on an opposing surface, and said support on the surfaces interconnecting said window and said submount; ~~[[and]]~~
~~a flexible optical cable having a plurality of optical fibers and openings that align with the guide pins;~~
wherein a flexible ribbon-type optical cable having a plurality of optical fibers and openings that align with the guide pins can be mounted ~~the flexible optical cable~~ mounts between said parallel legs, said guide pins fitting into said openings when the flexible ribbon-type optical cable is attached to said support.
19. **(Original)** The opto-electronic housing according to claim 18, wherein said opto-electronic array includes discrete optical elements, and wherein the optical elements optically align with said plurality of optical fibers when said flexible optical cable is attached to said support.
20. **(Original)** The opto-electronic housing according to claim 18, wherein the support is a metal support.
21. **(New)** The opto-electronic housing according to claim 1, wherein said second surface further comprises a plurality of opto-electronic devices.
22. **(New)** The opto-electronic housing according to claim 1, wherein said submount is substantially planar.

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23. (New) The opto-electronic housing according to claim 10, wherein said submount is substantially planar.

24. (New) The opto-electronic housing according to claim 18, wherein said submount is substantially planar.